

DERWENT-ACC-NO: 1995-077548
DERWENT-WEEK: 199511
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TITLE: Smooth planed board with antimicrobial activity - has resin coated layer, e.g., melamine contg. adhered antimicrobial particles.

PATENT-ASSIGNEE: IBIDEN CO LTD[IBIG]

PRIORITY-DATA: 1993JP-0148801 (June 21, 1993)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|-----------------|----------|-------|-------------|
| JP 07001414 A | January 6, 1995 | N/A | 004 | B27M 003/00 |

APPLICATION-DATA:

| PUB-NO | APPL-DESCRIPTOR | APPL-NO | APPL-DATE |
|-------------|-----------------|----------------|---------------|
| JP07001414A | N/A | 1993JP-0148801 | June 21, 1993 |

INT-CL_(IPC): A01N059/16; B27M003/00 ; B32B021/08

ABSTRACTED-PUB-NO: JP07001414A

BASIC-ABSTRACT: An antimicrobial smoothly planed board having a resin coated layer, partic. melamine, polyester, acryl and/or diallylphthalate resin, contg. antimicrobial particles on the surface and placed on a pattern layer, prepd. by (1) laying resin coated layer on a resin impregnated patter paper to give a core paper, (2) adhering antimicrobial particles on the surface of the resin coated layer, and (3) laminating the core paper with a veneer board, followed by hot-press.

The smoothly planed board is prepd. by the claimed stepwise process (1) to (3), providing adhesion of antimicrobial particles of 0.2-5 micro m diameters are ratios of 0.1-10 g/square m. Zeolite or silica particles with added Ag ions re pref. contained in the resin coating layer.

USE/ADVANTAGE - Medicinal tools, constructions and institutions. Prevention of nosocomial infections.

In an example, a melamine resin contg. solid component at a rate of 48% was spread on a sheet of pattern paper of 112 g/square m, contg. 34% of TiO₂ and melamine resin impregnated rate of 40% at a rate of 60 g/square-m to give resin coated layer of 7 micro m. A suspension of zeolite particles of 1 micro m with adhered Ag ion was sprayed at a rate of about 1 g/square m. The resultant sheet was laminated with three sheets of similar pattern paper impregnated with 30% of melamine resin and hot-pressed at 150 deg.C and 80 kg/square cm. for 60 mins. to give the aimed melamine.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

SMOOTH PLANE BOARD ANTIMICROBIAL ACTIVE RESIN COATING LAYER MELAMINE CONTAIN ADHERE ANTIMICROBIAL PARTICLE

DERWENT-CLASS: A21 A23 A32 A94 D22 P63 P73

CPI-CODES: A08-M02; A11-B09B; A12-A04A; D09-A01;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1966U

DERWENT-ACC-NO: 1982-03653J
DERWENT-WEEK: 198248
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TITLE: Abrasive sheet formed in paper making machine - comprises abrasive powder e.g. silicon carbide of 1-80 micron particle size dispersed in fibrous material e.g. polyester

PATENT-ASSIGNEE: NITTETSU KOGYO KK[NITW], TOYO PULP CO LTDK[TOYE]

PRIORITY-DATA: 1981JP-0056790 (April 15, 1981)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|------------------|----------|-------|----------|
| JP 57173465 A | October 25, 1982 | N/A | 002 | N/A |

INT-CL_(IPC): B24D011/00

ABSTRACTED-PUB-NO: JP57173465A

BASIC-ABSTRACT: An abrasive sheet exhibiting good grinding property and long working life, is used for polishing metal articles, wood prods., glass articles, ferrite or like members and consists of 5-30 wt.% fibrous material and 70-95 wt.% of abrasive very fine particles such as Al₂O₃, SiC, Cr oxides, ZrO₂, Fe oxides, SiO₂, emery, garnet or similar hard particles having a particle size of 1-80 microns. The fibrous material comprises not only cellulose but also P.V.A., polyester, polyamide, vinyl fibre or like synthetic fibre.

The abrasive sheet is prepd. by mixing fibrous material with abrasive powder and water. Then the obtd. suspension is sent to a paper making machine so as to obtain a fibre sheet wherein thermo-setting resin or latex may be impregnated.

The abrasive particles are tightly bonded in the fibre sheet.

TITLE-TERMS:

ABRASION SHEET FORMING PAPER MACHINE COMPRISE ABRASION POWDER SILICON CARBIDE MICRON PARTICLE SIZE DISPERSE FIBRE MATERIAL POLYESTER

DERWENT-CLASS: A81 F09 L02 P61

CPI-CODES: A12-A03; A12-W06; F05-A04D; F05-A06; F05-A06C; F05-A06D; L02-F01;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0231 1283 1291 1982 2007 2020 2430 2504 2524 2687 2718 2723 2725 2801

Multipunch Codes: 013 04- 141 143 144 231 244 245 252 253 397 431 436 440 442 473 477 481 59- 609 657 013 04- 141 143 144 231 244 245 252 253 397 431 436 440 442 473 477 481 59- 609 657

CLIPPEDIMAGE= EP000732449A1

PUB-NO: EP000732449A1

DOCUMENT-IDENTIFIER: EP 732449 A1

TITLE: Process for the production of decor paper to be used for the manufacture of abrasion-resistant laminates, and a decor paper

PUBN-DATE: September 18, 1996

INVENTOR-INFORMATION:

NAME COUNTRY
TITHO, GUNTER DE
GRAUDENZ, ECKHARD DR DE

ASSIGNEE-INFORMATION:

NAME COUNTRY
GRAUDENZ & PARTNER CONSULTATIO DE

APPL-NO: EP96100880

APPL-DATE: January 23, 1996

PRIORITY-DATA: DE19508797A (March 15, 1995)

INT-CL_(IPC): D21H023/72; D21H027/28

EUR-CL (EPC): B32B027/04; B32B029/00, B44C005/04 , D21H019/52 , D21H027/28

ABSTRACT:

CHG DATE=19990617 STATUS=O> A process for mfr. of decorative paper for use in the prodn. of abrasion-resistant laminates entails the application of a mixture with a viscous, fine-grained, abrasion-resistant mineral component to the visible surface of a decorative sheet. The mixture comprises: (a) melamine resin, (b) alpha -cellulose with a fibre length from 10 to 40 mu m and in a proportion of 15 to 25% by weight, (c) corundum as the abrasion-resistant mineral with a particle size from 15 to 50 mu m in a proportion of 1 to 16% by weight, (d) additives and (e) water. These are thoroughly inter-mixed to a predetermined viscosity and the result applied to the decorative sheet which has previously been saturated in at least one process stage with resin and dried to a predetermined residual dampness. The quantity used should result in a layer of thickness from 20 to 65 mu m after final dampness has been reached by drying the sheet in at least one further process stage.

2654 2657 2673 2694 2698 2725 2726 3268 2729 2836 1294 1276 3182 2020 2198 2294
2299 2493 1288

Multipunch Codes: 014 04- 06- 061 062 063 07& 09& 09- 15- 150 20- 229 342 38&
402 408 409 431 433 435 442 443 445 477 516 523 525 526 575 58& 596 597 598 613
614 618 688 725 014 04- 06- 061 062 063 07& 09& 09- 139 143 146 15- 20- 229 231
273 311 341 342 359 38& 402 408 409 431 433 435 442 443 445 473 477 51& 516 523
525 526 575 58& 596 597 598 613 614 618 688 725 014 04- 06- 061 062 063 07& 09&
09- 143 15- 20- 229 342 38& 402 408 409 431 433 435 442 443 445 477 516 523 525
526 575 58& 596 597 598 613 614 618 688 725

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1991-092503

Non-CPI Secondary Accession Numbers: N1991-162614